450K/550K/650K CRAWLER DOZERS

60–78 kW (80–104 hp)





We hear you loud and clear.

When customers sound off, we listen. So when participants of our Customer Advocate Group (CAG) asked us to turn down the noise and turn up productivity on our K-Series Dozers, we responded with an all-new 450K that's 16-percent more powerful than the previous model. Eco mode that regulates engine rpm and hydrostatic transmission to burn up to 20-percent less fuel in a wide range of applications. And Total Machine Control on the durable sealed-switch module for easy customization and reliable control of a variety of machine functions. There's more to like in the K-Series.

Specifications	450K	450K LGP
Rated Power	60 kW (80 net hp)	60 kW (80 net hp)
Base Weight	7959 kg (17,510 lb.)	8522 kg (18,752 lb.)
Specifications	550K	550K LGP
Rated Power	69 kW (92 net hp)	69 kW (92 net hp)
Base Weight	8981 kg (19,758 lb.)	9544 kg (21,000 lb.)
Specifications	650K XLT	650K LGP
Rated Power	78 kW (104 net hp)	78 kW (104 net hp)
Base Weight	9691 kg (21,320 lb.)	10 156 kg (22,343 lb.)





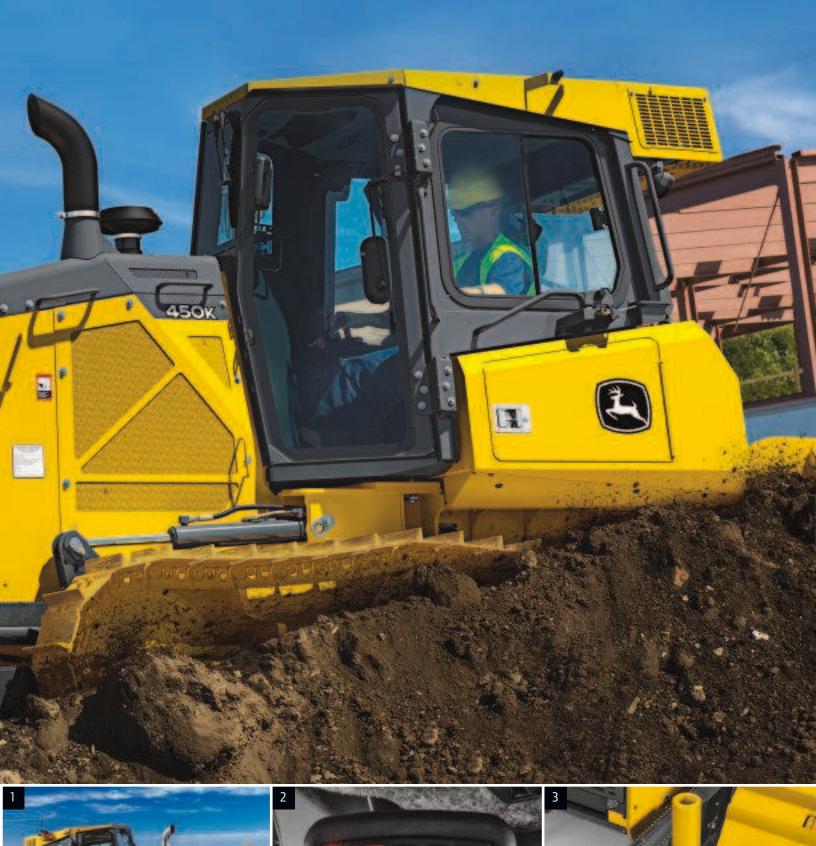
Power turns. Counter-rotating tracks. Power management. Infinitely variable travel speeds. John Deere has been introducing productivity-boosting advantages on our crawler dozers for more than 35 years. And our 650K, 550K, and redesigned, reimagined new 450K are loaded with even more performance enhancements, including Eco mode and Total Machine Control (TMC).

Our EPA Final Tier 4 (FT4)/EU Stage IV diesels meet emission regulations without sacrificing power or torque. The 450K delivers 16-percent more horsepower along with a more impressive power-to-weight ratio, available torque, and drawbar pull than its J-Series counterpart.

Simply set maximum desired ground speed and the power-management system automatically maintains peak engine rpm and power efficiency without stalling or shifting. Counter-rotation boosts productivity by enabling an operator to overcome heavy corner loads and quickly reposition the blade on the go. Provides space-saving spot turns, too.

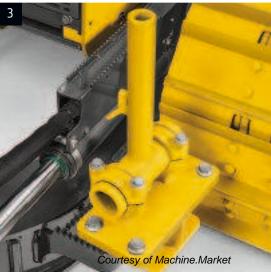
Infinitely variable range to 11 km/h (6.8 mph) allows total flexibility to match ground speed to the load. Travel can also be varied to fit specific applications, terrain conditions, or operating preferences — and even limited to maximize undercarriage life.

- 1. TMC enables an operator to customize control of decelerator mode and response, forward/reverse ground speed, steering modulation, and forward/reverse speed ratios, and even record machine usage.
- 2. Eco mode maximizes fuel economy by up to 20 percent without sacrificing performance, automatically adjusting engine rpm and transmission settings based on load.
- 3. When you order your dozer with electrohydraulic (EH) controls, it's grade-control ready. Our "openarchitecture" design makes adding a grade-control system as easy as plugging in the components, calibrating, and going to work, whether your preference be Trimble, Leica, or a factory-installed Topcon 3D-MC² system.











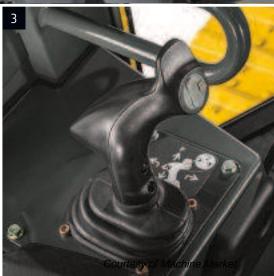


- 1. Opt for the 360-deg. lighting package to extend your workday beyond daylight.
- 2. Cab-forward design allows a commanding view behind, below, and beyond the blade. Side and rear visibility is virtually unobstructed.
- 3. Optional electrohydraulic (EH) controls significantly improve blade response, including increased hydraulic motor capacity on the new 450K that enables 50-percent greater bladeraise performance. Blade Shake feature for Power-Angle-Tilt (PAT) blades automatically shakes off dirt at the touch of a button.







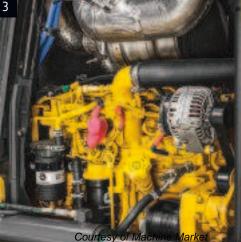












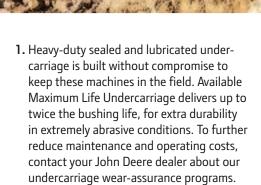


Nothing runs like a Deere, because nothing is built like it.

Designed and built with state-of-the-art tools and techniques by a quality-conscious workforce at our facility in Dubuque, Iowa, K-Series Dozers are loaded with uptime-boosting features. When you know how they're built, you'll run a Deere.

Eco mode automatically adjusts engine rpm and hydrostatic (HST) transmission settings based on load while maintaining ground speed, to help optimize fuel economy as much as 20 percent.

Transmission temperature is constantly monitored to protect the HST system. If temps get too hot or too cold, a warning light illuminates, and transmission and engine speed are automatically derated to prevent damage.



- Direct-drive fan on the 450K and 550K provides efficient cooling, contains noise, and conserves precious fuel. Variable-speed fan on the 650K includes an optional reversing feature that runs only as needed.
- **3.** Exclusive turbo cool-down increases durability by allowing the engine to idle momentarily prior to shutting down. Auto shutdown turns the engine off after an operator-determined period of machine inactivity, saving fuel and warranty hours.

Declare open season on operating costs.

We're pretty open-minded when it comes to keeping uptime up and daily operating costs down. With our K-Series Dozers, you'll spend less effort and expense getting ready for work — and more time getting work done.

- 1. Exhaust filter operation and status are indicated with icons and on-screen displays. Diagnostic monitor also provides easy-to-understand messages that help speed troubleshooting.
- 2. Available quick fluid-evacuation system helps speed servicing. 500-hour engine oil and 2,000-hour transmission and hydraulic fluid intervals decrease maintenance downtime and expense.
- 3. Auto-idle decreases engine speed when the dozer is not moving, to help maintain quiet working conditions and conserve precious fuel. Operators can program auto-idle to activate in increments from as soon as five sec. up to 15 min.

Serviceability improvements on the 550K and 650K include new composite fuel tank, redesigned diagnostic lines with pressure sensors, and John Deere transmission control unit software.











450K

Engine	450K / 450K LGP
Blade Type	Power-Angle-Tilt (PAT)
Manufacturer and Model	John Deere PowerTech™ PWS 4045
Non-Road Emission Standard	EPA Final Tier 4/EU Stage IV
Displacement	4.5L (276 cu. in.)
SAE Net Rated Power	60 kW (80 hp) at 2,200 rpm
Net Peak Torque	354 Nm (261 ftlb.) at 1,400 rpm
Aspiration	Turbocharged with charge-air cooler
Air Cleaner	Dual-stage dry tube with tangential unloader
Cooling	3 /
Type	Blower-type, direct-drive cooling fan
Engine Coolant Rating	–37 deg. C. (–34 deg. F)
Engine Radiator	8.47 fins per in.
Powertrain	0. 17 mil pet III.
Transmission	Automatic, dual-path, hydrostatic (HST) drive; load-sensing feature automatically adjusts speed and power to match
Transmission	changing load conditions; each individually controlled track is powered by a variable-displacement piston pump and variable-displacement motor combination; ground-speed selection buttons on single-lever steering and direction control; independently selectable reverse speed ratios of 100%, 115%, or 130% of forward ground speed; decelerator pedal controls ground speed to stop
System Relief Pressure	34 887 kPa (5,060 psi)
Travel Speeds	5 1 607 M d (57,600 ps)
Forward and Reverse	8.0 km/h (5.0 mph)
Maximum (optional)	9.7 km/h (6.0 mph)
Steering	Single-lever steering, direction control, and counter-rotation; full power turns and infinitely variable track speeds
-	provide unlimited maneuverability and optimum control; HST steering eliminates steering clutches and brakes
Final Drives	Triple-reduction final drives mounted independently of track frames and dozer push frames for isolation from shock loads
Total Ratio	48.4 to 1
Drawbar Pull	35 · 10
Maximum	122 kN (27,500 lb.)
At 1.9 km/h (1.2 mph)	80 kN (17,900 lb.)
At 3.2 km/h (2.0 mph)	48 kN (10,900 lb.) ** 450K FT4 Drawbar Pull vs. Ground Speed
Brakes	120
Service	HST (dynamic) braking stops the
	machine when the direction/steering
	control lever is moved to neutral or
	the decelerator is depressed to the
	the decelerator is depressed to the detent Exclusive spring-applied, hydraulically 88
Parking	Exclusive spring-applied, hydraulically states
<u> </u>	released park-brake feature engages
	wet, multiple-disc brakes automatically
	whenever the engine stops, the oper-
	ator depresses the decelerator pedal
	to the brake position, the unit is in
	neutral for 3 seconds (with detected
	motion), or the park-lock lever is in
	driven with brake applied minimizing
	wearout or need for adjustment coolingseed
Hydraulics	Wediods of ficed for adjustificity (ROUNDSPED
Type	Open-center hydraulic system with fixed-displacement gear pump
71	
Pump Displacement	36.4 cc

Pump Displacement 36.4 cc

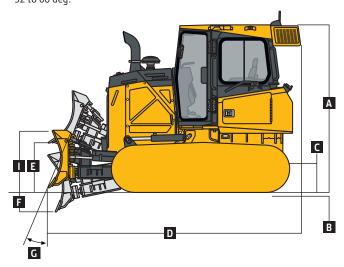
System Relief Pressure 20 684 kPa (3,000 psi)
Maximum Flow at Unloaded High Idle 80 L/m (21 gpm)

Control 3-function direct-acting T-bar joystick with push-button angle function



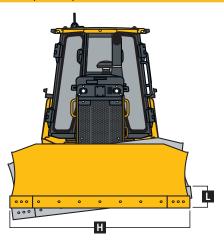
Blade Type	Electrical	450K / 450K LGP	
Voltage* Ze volts			
Santery 950 CCA 190 min. Alternator Rating Cab 190 min. Alternator Rating Carbon 100 amp			
Battery 950.CCA Reserve 190 min.	-		
Reserve		950 CCA	
Cab	,		
Cab	Alternator Rating		
Canopy		100 amp	
Undercarriage	Canopy		
Blade Type		•	; (2)
Tracks	Undercarriage		
Interest	Blade Type	PAT	PAT
Grouser Width Chain Saeled and ulbricated Soeled and ulbricated Frack Rollers, Each Side Track Length on Ground Coround Contact Area 17755 cm² (2,752 sq. in.) 17755 cm² (2,752 sq. in.) Track Pitch 160 mm (6.3 in.) standard / 171 mm (6.7 in.) Maximum Life Operator Station ROPS (ISO 3471 – 2008) and FOPS (ISO 3449 – 2005) Serviceability Refill Capacities Fruel Tank with Lockable Cap Diesel Exhaust Fluid (DEF) Tank Cooling System with Recovery Tank Engine Oil with Filter Hydraulic/HST Oil (common reservoir) with Filters Final Drive (per tractor) Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure (ROPS), Lift Funk (and 29-94 pt 175 lb.) percetor) Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens 12 kg (26 lb.) Rear Screen 34 kg (79 lb.) Side Screens 43 kg (76 lb.) Side Screens 43 kg (94 lb.) Front 109 kg (240 lb.) Front 100 kg (240 lb.) Front 100 kg (257 lb		idlers are permanently sealed and lubricated; full-length tra	ack-frame covers reduce material buildup and ease cleaning
Chain Sealed and lubricated Sealed and lubricated Shoes, Each Side 40 standard and Extended Life / 37 Maximum Life 40 standard and Extended Life / 37 Maximum Life 6 frack Length or Ground 2184 mm (86 in.) 31.3 kPa (4.5 psi) 31.3	3	· ,	· ·
Shoes, Each Side 40 standard and Extended Life / 37 Maximum Life 17ack Politers, Each Side 6 7ack Length on Ground 2184 mm (86 in.) 26 632 cm² (4, 128 sq. in.) 31.8 kp² (4, 128 sq. in.) 31.8 kq² (4		, ,	, ,
Track Rollers, Each Side			
Track Length on Ground Ground Contact Area Ground Pressure 43.9 kPa (6.4 psi) 17.55 cm² (2.752 sq. in.) 6.6 32 cm² (4,128 sq. in.) 6.70 mm (6.3 in.) standard / 171 mm (6.7 in.) Maximum Life Poperator Station Operator Station			
Ground Contact Area			
Ground Pressure 43.9 kPa (6.4 psi) 31.3 kPa (4.5 psi) Track Ptch 160 mm (6.3 in.) standard / 171 mm (6.7 in.) Maximum Life	3	, ,	, ,
Track Pitch 160 mm (6.3 in.) standard / 171 mm (6.7 in.) Maximum Life			
Operator Station			
ROPS (ISO 3471 – 2008) and FOPS (ISO 3449 – 2005) Serviceability Ser			Lite
Refill Capacities Fuel Tank with Lockable Cap 202 L [53,45 gal.]	·	450K / 450K LGP	
Refill Capacities			
Fuel Tank with Lockable Cap 202 L (53.45 gal.)			
Diesel Exhaust Fluid (DEF) Tank 11.8 k (3.1 gal.)		2224 (22 42 43	
Cooling System with Recovery Tank Engine Oil with Filter 19 L (20 qt.) Hydraulic/HST Oil (common reservoir) with Filters 100 L (26.42 gal.) Final Drive (per tractor) 17 L (4.6 gal.) Operating Weights 450K 450K 450K LGP Blade Type PAT PAT Base Weight (with standard equipment, rollover protective structure (ROPS), full fuel tank, and 79-kg (175.10 lb.) Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater 12 kg (26 lb.) 12 kg (26 lb.) 12 kg (26 lb.) 12 kg (26 lb.) 13 kg (179 lb.) Side Screens 18 lkg (179 lb.) Side Screens 18 kg (179 lb.) Side Screens 14 kg (94 lb.) 43 kg (94 lb.) 43 kg (94 lb.) Limb Risers (ROPS canopy and cab) Counterweight Front 109 kg (240 lb.) Rear Retrieval Hitch 23 kg (50 lb.) Drawbar, Extended Rigid 33 kg (72 lb.) Winch 652 kg (1,437 lb.) Fairlead, 4 Roller 85 kg (187 lb.) 86 kg (187 lb.) 87 kg (257 lb.) 88 kg (193 lb.) 89 kg (290 lb.)			
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Operating Weights			
Blade Type			/ FOV LED
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Track Shoes 457 mm (18 in.) In base —			
457 mm (18 in.) In base —	3	88 kg (193 lb.)	132 kg (290 lb.)
b I U mm (24 in.) — In base			
	010 mm (24 in.)	_	In pase

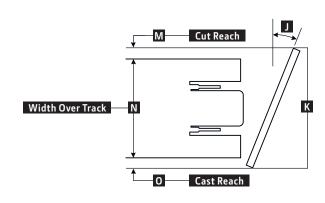
Machine Dimensions	450K / 450K LGP
A Overall Height to Roof	2799 mm (9 ft. 2 in.)
B Tread Depth with Single-Bar Grouser	49 mm (1.9 in.)
C Ground Clearance in Dirt	329 mm (13 in.)
D Overall Length	4016 mm (158 in.) (13 ft. 2 in.)
E Blade Lift Height	772 mm (30.4 in.)
F Blade Digging Depth	528 mm (20.8 in.)
G Blade Cutting-Edge Angle Adjustable	52 to 60 deg



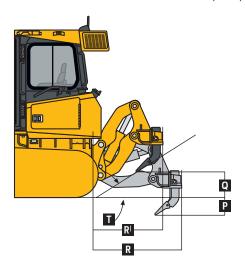
450K / 450K LGP WITH POWER-ANGLE-TILT (PAT) BLADE

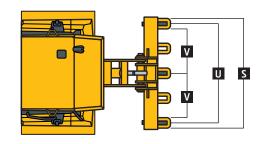
Ma	achine Dimensions (continued)	450K	450K LGP
Bla	ide Type	PAT	PAT
Sti	raight		
Н	Blade Width	2464 mm (97 in.) (8 ft. 1 in.)	2921 mm (115 in.) (9 ft. 7 in.)
- 1	Blade Height	955 mm (3 ft. 2 in.)	955 mm (3 ft. 2 in.)
	SAE Capacity	1.6 m³ (2.1 cu. yd.)	2.0 m ³ (2.6 cu. yd.)
	Weight	494 kg (1,090 lb.)	628 kg (1,385 lb.)
	C-Frame Assembly Weight (without blade)	330 kg (727 lb.)	330 kg (727 lb.)
J	Blade Angle	25.4 deg.	25.4 deg.
K	Overall Width with Blade Angled	2225 mm (7 ft. 4 in.)	2639 mm (8 ft. 8 in.)
L	Blade Tilt (uses tilt jack)	338 mm (13.3 in.)	399 mm (15.7 in.)
M	Cut Reach	56 mm (2.2 in.)	58.4 mm (2.2 in.)
N	Width Over Track	1854 mm (6 ft. 1 in.)	2261 mm (7 ft. 5 in.)
0	Cast Reach	318 mm (12.5 in.)	320 mm (12.6 in.)
Sti	aight (option)		
Н	Blade Width	2921 mm (115 in.) (9 ft. 7 in.)	3150 mm (124 in.) (10 ft. 4 in.)
- 1	Blade Height	955 mm (3 ft. 2 in.)	894 mm (35 in.)
	SAE Capacity	2.0 m³ (2.6 cu. yd.)	1.9 m³ (2.5 cu. yd.)
	Weight	628 kg (1,385 lb.)	631 kg (1,391 lb.)
	C-Frame Assembly Weight (without blade)	330 kg (727 lb.)	330 kg (727 lb.)
J	Blade Angle	25.4 deg.	25.4 deg.
K	Overall Width with Blade Angled	2639 mm (8 ft. 8 in.)	2845 mm (9 ft. 4 in.)
L	Blade Tilt (uses tilt jack)	399 mm (15.7 in.)	429 mm (16.9 in.)
M	Cut Reach	262 mm (10.3 in.)	163 mm (6.4 in.)
N	Width Over Track	1854 mm (6 ft. 1 in.)	2261 mm (7 ft. 5 in.)
0	Cast Reach	523 mm (20.6 in.)	424 mm (17.0 in.)





Re	ar Ripper	450K / 450K LGP
Bla	de Type	PAT
Mι	llti-shank parallelogram ripper with 5 pockets and 3 s	hanks
We	ight	981 kg (2,163 lb.)
Р	Maximum Penetration	508 mm (20 in.)
Q	Maximum Clearance Under Tip	508 mm (20 in.)
R	Overall Length, Lowered Position	1450 mm (57 in.) (4 ft. 9 in.)
R1	Overall Length, Raised Position	1015 mm (40 in.) (3 ft. 4 in.)
S	Overall Beam Width	1830 mm (6 ft. 0 in.)
Т	Slope Angle (full raise)	40 deg.
U	Ripping Width	1670 mm (5 ft. 6 in.)
٧	Distance Between Shanks	806 mm (32 in.)





550K

550K / 550K LGP **Engine** Blade Type Power-Anale-Tilt (PAT) John Deere PowerTech™ PWS 4045 Manufacturer and Model Non-Road Emission Standard EPA Final Tier 4/EU Stage IV Displacement 4.5L (276 cu. in.) SAE Net Rated Power 69 kW (92 hp) at 2,200 rpm Net Peak Torque 420 Nm (310 ft.-lb.) at 1,400 rpm Aspiration Turbocharged with charge-air cooler Air Cleaner Dual-stage dry tube with tangential unloader Cooling Blower-type, direct-drive cooling fan Type **Engine Coolant Rating** -37 deg. C. (-34 deg. F) **Engine Radiator** 8.47 fins per in. Powertrain Transmission Automatic, dual-path, hydrostatic (HST) drive; load-sensing feature automatically adjusts speed and power to match changing load conditions; each individually controlled track is powered by a variable-displacement piston pump and variable-displacement motor combination; ground-speed selection buttons on single-lever steering and direction control; independently selectable reverse speed ratios of 100%, 115%, or 130% of forward ground speed; decelerator pedal controls ground speed to stop System Relief Pressure 38 741 kPa (5,619 psi) Travel Speeds Forward and Reverse 8.0 km/h (5.0 mph) Maximum (optional) 9.7 km/h (6.0 mph) Single-lever steering, direction control, and counter-rotation; full power turns and infinitely variable track speeds Steering provide unlimited maneuverability and optimum control; HST steering eliminates steering clutches and brakes **Final Drives** Triple-reduction final drives mounted independently of track frames and dozer push frames for isolation from shock loads 48.4 to 1 Total Ratio Drawbar Pull 134 kN (30,000 lb.) Maximum At 1.9 km/h (1.2 mph) 94 kN (21,100 lb.) At 3.2 km/h (2.0 mph) 58 kN (13,100 lb.) 550K FT4 Drawbar Pull vs. Ground Speed **Brakes** HST (dynamic) braking stops the Service machine when the direction/steering control lever is moved to neutral or the decelerator is depressed to the detent Parking Exclusive spring-applied, hydraulically Drawbar Pull Load (lbf) - Both Sides released park-brake feature engages wet, multiple-disc brakes automatically whenever the engine stops, the operator depresses the decelerator pedal to the brake position, the unit is in neutral for 3 seconds (with detected motion), or the park-lock lever is in the park position; machine cannot be driven with brake applied, minimizing

Hydraulics

Type Open-center hydraulic system with fixed-displacement gear pump

Pump Displacement 36.4 cc

System Relief Pressure 20 684 kPa (3,000 psi)
Maximum Flow at Unloaded High Idle 80 L/m (21 gpm)

Control 3-function direct-acting T-bar joystick with push-button angle function

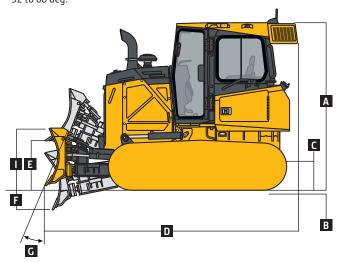
wearout or need for adjustment

GROUND SPEED



Electrical	550K / 550K LGP	
Blade Type	PAT	
Voltage	24 volts	
Capacity		
Battery	950 CCA	
Reserve	190 min.	
Alternator Rating	.50	
Cab	100 amp	
Canopy	100 amp	
Lights	Grille mounted (2), rear mounted (2), and rear reflectors	; (2)
Undercarriage	550K	550K LGP
Blade Type	PAT	PAT
Tracks	John Deere DuraTrax™ features large deep-heat-treated co	mponents; pins and bushings are sealed for life; rollers and
		ack-frame covers reduce material buildup and ease cleaning
Track Gauge	1549 mm (61 in.)	1753 mm (69 in.)
Grouser Width	457 mm (18 in.)	610 mm (24 in.)
Chain	Sealed and lubricated	Sealed and lubricated
Shoes, Each Side	40 standard and Extended Life / 37 Maximum Life	40 standard and Extended Life / 37 Maximum Life
Track Rollers, Each Side	6	6
Track Length on Ground	2184 mm (86 in.)	2184 mm (86 in.)
Ground Contact Area	19 974 cm² (3,096 sq. in.)	26 632 cm ² (4,128 sq. in.)
Ground Pressure	44.1 kPa (6.4 psi)	35.2 kPa (5.1 psi)
Track Pitch	160 mm (6.3 in.) standard and Extended Life / 171 mm (6.7 in.) Maximum Life
Operator Station	550K / 550K LGP	
ROPS (ISO 3471 – 2008) and FOPS (ISO 3449 – 2005)		
Serviceability		
Refill Capacities		
Fuel Tank with Lockable Cap	202 L (53.45 gal.)	
Diesel Exhaust Fluid (DEF) Tank	11.8 L (3.1 gal.)	
Cooling System with Recovery Tank	21.1 L (5.6 gal.)	
Engine Oil with Filter	19 L (20 qt.)	
Hydraulic/HST Oil (common reservoir) with Filters	100 L (26.42 gal.)	
Final Drive (per tractor)	17 L (4.6 gal.)	
Operating Weights	550K	550K LGP
Blade Type	PAT	PAT
Base Weight (with standard equipment, rollover	8981 kg (19,758 lb.)	9544 kg (21,000 lb.)
protective structure [ROPS], full fuel tank, and		
79-kg [175 lb.] operator)		
Optional Components		
Cab with Pressurizer and Heater/Air Conditioner	306 kg (675 lb.)	306 kg (675 lb.)
ROPS Canopy		
Heater	39 kg (85 lb.)	39 kg (85 lb.)
Front and Door Screens	81 kg (179 lb.)	81 kg (179 lb.)
Rear Screen	34 kg (76 lb.)	34 kg (76 lb.)
Side Screens	43 kg (94 lb.)	43 kg (94 lb.)
Limb Risers (ROPS canopy and cab)	95 kg (209 lb.)	95 kg (209 lb.)
Counterweight		
Front	109 kg (240 lb.)	109 kg (240 lb.)
Rear	150 kg (330 lb.)	150 kg (330 lb.)
Retrieval Hitch	23 kg (50 lb.)	23 kg (50 lb.)
Drawbar, Extended Rigid	33 kg (72 lb.)	33 kg (72 lb.)
Winch	652 kg (1,437 lb.)	652 kg (1,437 lb.)
Fairlead, 4 Roller	85 kg (187 lb.)	85 kg (187 lb.)
Full-Length Rock Guards	128 kg (282 lb.)	128 kg (282 lb.)
Maximum Life Undercarriage	258 kg (569 lb.)	258 kg (569 lb.)
Track Shoes		
457 mm (18 in.)	In base	_
610 mm (24 in.)	_	In base

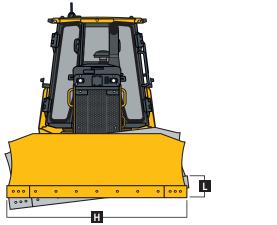
Machine Dimensions	550K / 550K LGP
A Overall Height to Roof	2799 mm (9 ft. 2 in.)
B Tread Depth with Single-Bar Grouser	49 mm (1.9 in.)
C Ground Clearance in Dirt	329 mm (13 in.)
D Overall Length	4016 mm (158 in.) (13 ft. 2 in.)
E Blade Lift Height	772 mm (30.4 in.)
F Blade Digging Depth	523 mm (20.6 in.)
G Blade Cutting-Edge Angle Adjustable	52 to 60 deg

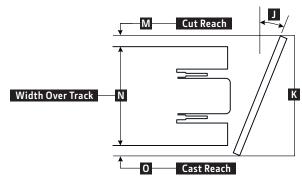


550K / 550K LGP WITH POWER-ANGLE-TILT (PAT) BLADE

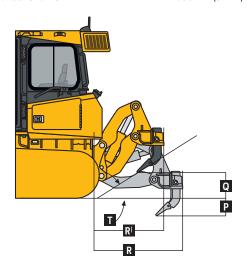
Machine Dimensions (co	ntinued) 550K		550K LGP
Blade Type	PAT		PAT
Straight			
H Blade Width	2667 m	m (105 in.) (8 ft. 9 in.)	2921 mm (115 in.) (9 ft. 7 in.)
I Blade Height	955 mm	(3 ft. 2 in.)	955 mm (3 ft. 2 in.)
SAE Capacity	1.8 m³ (2.4 cu. yd.)	2.0 m ³ (2.6 cu. yd.)
Weight	603 kg (1,330 lb.)	628 kg (1,385 lb.)
C-Frame Assembly We	ight (without blade) 399 kg (879 lb.)	399 kg (879 lb.)
J Blade Angle	22.2 de	g.	22.2 deg.
K Overall Width with Bl	ade Angled 2469 m	m (8 ft. 1 in.)	2705 mm (8 ft. 11 in.)
L Blade Tilt (uses tilt jac	:k) 363 mm	(14.3 in.)	399 mm (15.7 in.)
M Cut Reach	117 mm	(4.6 in.)	56 mm (2.2 in.)
N Width Over Track	2007 m	m (6 ft. 7 in.)	2362 mm (7 ft. 9 in.)
O Cast Reach	345 mm	(18.3 in.)	287 mm (11.0 in.)
Straight (option)			
H Blade Width	2921 m	m (115 in.) (9 ft. 7 in.)	3150 mm (124 in.) (10 ft. 4 in.)
I Blade Height	955 mm	(3 ft. 2 in.)	894 mm (35 in.)
SAE Capacity	2.0 m³ (2.6 cu. yd.)	1.9 m³ (2.5 cu. yd.)
Weight	628 kg (1,385 lb.)	631 kg (1,391 lb.)
C-Frame Assembly We	ight (without blade) 399 kg (879 lb.)	399 kg (879 lb.)
J Blade Angle	22.2 de	g.	22.2 deg.
K Overall Width with Bl	ade Angled 2705 m	m (8 ft. 11 in.)	2916 mm (9 ft. 7 in.)
L Blade Tilt (uses tilt jac	:k) 399 mm	(15.7 in.)	429 mm (16.9 in.)
M Cut Reach	234 mm	(9.2 in.)	163 mm (6.4 in.)
N Width Over Track	2007 m	m (6 ft. 7 in.)	2464 mm (8 ft. 1 in.)
O Cast Reach	465 mm	(18.3 in.)	391 mm (15.4 in.)

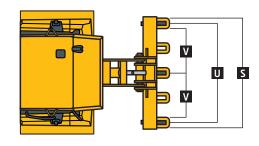
550K / 550K LGP





Re	ar Ripper	550K / 550K LGP
Bla	de Type	PAT
Mι	lti-shank parallelogram ripper with 5 pockets and 3 s	hanks
We	ight	981 kg (2,163 lb.)
Р	Maximum Penetration	508 mm (20 in.)
Q	Maximum Clearance Under Tip	508 mm (20 in.)
R	Overall Length, Lowered Position	1450 mm (57 in.) (4 ft. 9 in.)
R1	Overall Length, Raised Position	1015 mm (40 in.) (3 ft. 4 in.)
S	Overall Beam Width	1830 mm (6 ft. 0 in.)
Т	Slope Angle (full raise)	40 deg.
U	Ripping Width	1670 mm (5 ft. 6 in.)
٧	Distance Between Shanks	806 mm (32 in.)







650K XLT / 650K LGP **Engine** Blade Type Power-Angle-Tilt (PAT) John Deere PowerTech™ PWS 4045 Manufacturer and Model Non-Road Emission Standard EPA Final Tier 4/EU Stage IV Displacement 4.5L (276 cu. in.) SAE Net Rated Power 78 kW (104 hp) at 2,200 rpm Net Peak Torque 475 Nm (350 ft.-lb.) at 1,400 rpm Aspiration Turbocharged with charge-air cooler Air Cleaner Dual-stage dry tube with tangential unloader Cooling Variable-speed suction fan with optional reversing feature Type **Engine Coolant Rating** -37 deg. C. (-34 deg. F) **Engine Radiator** 10 fins per in. Powertrain Transmission Automatic, dual-path, hydrostatic (HST) drive; load-sensing feature automatically adjusts speed and power to match changing load conditions; each individually controlled track is powered by a variable-displacement piston pump and variable-displacement motor combination; ground-speed selection buttons on single-lever steering and direction control; independently selectable reverse speed ratios of 100%, 115%, or 130% of forward ground speed; decelerator pedal controls ground speed to stop System Relief Pressure 42 692 kPa (6,192 psi) Travel Speeds Forward and Reverse 8.0 km/h (5.0 mph) Maximum (optional) 9.7 km/h (6.0 mph) Single-lever steering, direction control, and counter-rotation; full power turns and infinitely variable track speeds Steering provide unlimited maneuverability and optimum control; HST steering eliminates steering clutches and brakes **Final Drives** Triple-reduction final drives mounted independently of track frames and dozer push frames for isolation from shock loads 52.13 to 1 Total Ratio Drawbar Pull 148 kN (33,600 lb.) Maximum At 1.9 km/h (1.2 mph) 108 kN (24,200 lb.) At 3.2 km/h (2.0 mph) 69 kN (15,600 lb.) 650K FT4 Drawbar Pull vs. Ground Speed **Brakes** Service HST (dynamic) braking stops the machine when the direction/steering control lever is moved to neutral or the decelerator is depressed to the DRAWBAR PULL detent Parking Exclusive spring-applied, hydraulically Drawbar Pull Load (lbf) - Both Sides released park-brake feature engages wet, multiple-disc brakes automatically whenever the engine stops, the operator depresses the decelerator pedal to the brake position, the unit is in neutral for 3 seconds (with detected motion), or the park-lock lever is in the park position; machine cannot be driven with brake applied, minimizing

Hydraulics

Type Open-center hydraulic system with fixed-displacement gear pump

Pump Displacement 36.4 cc

System Relief Pressure 20 684 kPa (3,000 psi)
Maximum Flow at Unloaded High Idle 80 L/m (21 gpm)

Control 3-function direct-acting T-bar joystick with push-button angle function

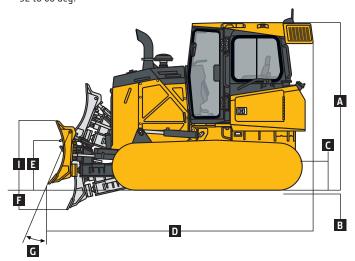
wearout or need for adjustment

GROUND SPEED



et and	CENTAL ACTIVITY	
Electrical Plada Time	650K XLT / 650K LGP	
Blade Type Voltage	PAT 24 volts	
5	24 VOITS	
Capacity	950 CCA	
Battery	190 min.	
Reserve	190 min.	
Alternator Rating	100	
Cab	100 amp	
Canopy	100 amp	(2)
Lights Undercarriage	Grille mounted (2), rear mounted (2), and rear reflectors 650K XLT	650K LGP
Blade Type	PAT	PAT
Tracks		mponents; pins and bushings are sealed for life; rollers and
Hacks		ack-frame covers reduce material buildup and ease cleaning
Track Gauge	1550 mm (61 in.)	1750 mm (69 in.)
Grouser Width	457 mm (18 in.)	711 mm (28 in.)
Chain	Sealed and lubricated	Sealed and lubricated
Shoes, Each Side	40	40
Track Rollers, Each Side	7	7
Track Length on Ground	2349 mm (92 in.)	2349 mm (92 in.)
Ground Contact Area	21 479 cm ² (3,329 sq. in.)	33 412 cm ² (5,179 sq. in.)
Ground Pressure	44.1 kPa (6.4 psi)	29.6 kPa (4.3 psi)
Track Pitch	171 mm (6.7 in.)	171 mm (6.7 in.)
Operator Station	650K XLT / 650K LGP	
ROPS (ISO 3471 – 2008) and FOPS (ISO 3449 – 2005)		
Serviceability		
Refill Capacities		
Fuel Tank with Lockable Cap	202 L (53.45 gal.)	
Diesel Exhaust Fluid (DEF) Tank	11.8 L (3.1 gal.)	
Cooling System with Recovery Tank	21.1 L (5.6 gal.)	
Engine Oil with Filter	19 L (20 qt.)	
Hydraulic/HST Oil (common reservoir) with Filters	100 L (26.42 gal.)	
Final Drive (per tractor)	17 L (4.6 gal.)	
Operating Weights	650K XLT	650K LGP
Operating Weights Blade Type	PAT	PAT
Operating Weights Blade Type Base Weight (with standard equipment, rollover	650K XLT	
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and	PAT	PAT
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator	PAT	PAT
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components	650K XLT <i>PAT</i> 9691 kg (21,320 lb.)	<i>PAT</i> 10 156 kg (22,343 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner	PAT	PAT
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy	9691 kg (21,320 lb.) 306 kg (675 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens Rear Screen	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens Rear Screen Side Screens	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens Rear Screen Side Screens Limb Risers (ROPS canopy and cab)	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens Rear Screen Side Screens Limb Risers (ROPS canopy and cab) Counterweight	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens Rear Screen Side Screens Limb Risers (ROPS canopy and cab) Counterweight Front	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens Rear Screen Side Screens Limb Risers (ROPS canopy and cab) Counterweight Front Rear	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens Rear Screen Side Screens Limb Risers (ROPS canopy and cab) Counterweight Front Rear Retrieval Hitch	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (50 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (50 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens Rear Screen Side Screens Limb Risers (ROPS canopy and cab) Counterweight Front Rear Retrieval Hitch Drawbar, Extended Rigid	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (50 lb.) 33 kg (72 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (50 lb.) 33 kg (72 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens Rear Screen Side Screens Limb Risers (ROPS canopy and cab) Counterweight Front Rear Retrieval Hitch Drawbar, Extended Rigid Winch	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (50 lb.) 33 kg (72 lb.) 652 kg (1,437 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (50 lb.) 33 kg (72 lb.) 652 kg (1,437 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens Rear Screen Side Screens Limb Risers (ROPS canopy and cab) Counterweight Front Rear Retrieval Hitch Drawbar, Extended Rigid Winch Fairlead, 4 Roller	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (50 lb.) 33 kg (72 lb.) 652 kg (1,437 lb.) 85 kg (187 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (50 lb.) 33 kg (72 lb.) 652 kg (1,437 lb.) 85 kg (187 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens Rear Screen Side Screens Limb Risers (ROPS canopy and cab) Counterweight Front Rear Retrieval Hitch Drawbar, Extended Rigid Winch Fairlead, 4 Roller Center Chain Guides	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (72 lb.) 652 kg (1,437 lb.) 85 kg (187 lb.) 41 kg (90 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (50 lb.) 33 kg (72 lb.) 652 kg (1,437 lb.) 85 kg (187 lb.) 41 kg (90 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens Rear Screen Side Screens Limb Risers (ROPS canopy and cab) Counterweight Front Rear Retrieval Hitch Drawbar, Extended Rigid Winch Fairlead, 4 Roller	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (50 lb.) 33 kg (72 lb.) 652 kg (1,437 lb.) 85 kg (187 lb.) 41 kg (90 lb.) 98 kg (216 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (50 lb.) 33 kg (72 lb.) 652 kg (1,437 lb.) 85 kg (187 lb.) 41 kg (90 lb.) 98 kg (216 lb.)
Operating Weights Blade Type Base Weight (with standard equipment, rollover protective structure [ROPS], full fuel tank, and 79-kg [175 lb.] operator Optional Components Cab with Pressurizer and Heater/Air Conditioner ROPS Canopy Heater Front and Door Screens Rear Screen Side Screens Limb Risers (ROPS canopy and cab) Counterweight Front Rear Retrieval Hitch Drawbar, Extended Rigid Winch Fairlead, 4 Roller Center Chain Guides Full-Length Rock Guards	650K XLT PAT 9691 kg (21,320 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (72 lb.) 652 kg (1,437 lb.) 85 kg (187 lb.) 41 kg (90 lb.)	PAT 10 156 kg (22,343 lb.) 306 kg (675 lb.) 39 kg (85 lb.) 81 kg (179 lb.) 34 kg (76 lb.) 43 kg (94 lb.) 104 kg (229 lb.) 109 kg (240 lb.) 150 kg (330 lb.) 23 kg (50 lb.) 33 kg (72 lb.) 652 kg (1,437 lb.) 85 kg (187 lb.) 41 kg (90 lb.)
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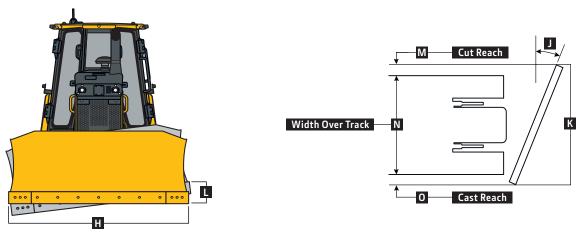
Ma	chine Dimensions	650K XLT / 650K LGP
Α	Overall Height to Roof	2762 mm (9 ft. 1.25 in.)
В	Tread Depth with Single-Bar Grouser	49 mm (1.9 in.)
C	Ground Clearance in Dirt	341 mm (13.5 in.)
D	Overall Length	4255 mm (168 in.) (14 ft. 0 in.)
Ε	Blade Lift Height	818 mm (32.2 in.)
F	Blade Digging Depth	500 mm (19.7 in.)
G	Blade Cutting-Edge Angle, Adjustable	52 to 60 dea



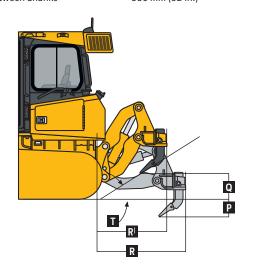
650K XLT / 650K LGP WITH POWER-ANGLE-TILT (PAT) BLADE

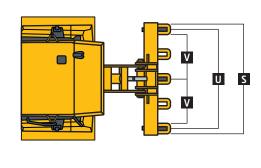
Machine Dimensions (continued)	650K XLT	650K LGP	
Blade Type	PAT	PAT	
Straight			
H Blade Width	2667 mm (105 in.) (8 ft. 9 in.)	2921 mm (115 in.) (9 ft. 7 in.)	
I Blade Height	1067 mm (3 ft. 6 in.)	955 mm (3 ft. 2 in.)	
SAE Capacity	2.2 m³ (2.9 cu. yd.)	2.0 m³ (2.6 cu. yd.)	
Weight	603 kg (1,330 lb.)	628 kg (1,385 lb.)	
C-Frame Assembly Weight (without blade)	399 kg (879 lb.)	399 kg (879 lb.)	
J Blade Angle	22.2 deg.	22.2 deg.	
K Overall Width with Blade Angled	2469 mm (8 ft. 1 in.)	2705 mm (8 ft. 11 in.)	
L Blade Tilt (uses tilt jack)	363 mm (14.3 in.)	399 mm (15.7 in.)	
M Cut Reach	117 mm (4.6 in.)	5 mm (0.2 in.)	
N Width Over Track	2007 mm (6 ft. 7 in.)	2464 mm (8 ft. 1 in.)	
O Cast Reach	345 mm (13.6 in.)	236 mm (9.3 in.)	
Straight (option)			
H Blade Width	2921 mm (115 in.) (9 ft. 7 in.)	3150 mm (124 in.) (10 ft. 4 in.)	
I Blade Height	955 mm (3 ft. 2 in.)	894 mm (35 in.)	
SAE Capacity	2.0 m³ (2.6 cu. yd.)	1.9 m³ (2.5 cu. yd.)	
Weight	628 kg (1,385 lb.)	631 kg (1,391 lb.)	
C-Frame Assembly Weight (without blade)	399 kg (879 lb.)	399 kg (879 lb.)	
J Blade Angle	22.2 deg.	22.2 deg.	
K Overall Width with Blade Angled	2705 mm (8 ft. 11 in.)	2916 mm (9 ft. 7 in.)	
L Blade Tilt (uses tilt jack)	399 mm (15.7 in.)	429 mm (16.9 in.)	
M Cut Reach	234 mm (9.2 in.)	112 mm (4.4 in.)	
N Width Over Track	2007 mm (6 ft. 7 in.)	2464 mm (8 ft. 1 in.)	
O Cast Reach	465 mm (18.3 in.)	340 mm (13.4 in.)	

Machine Dimensions (contin	ued) 650K XLT	650K LGP
Blade Type	PAT	PAT
Straight (option)		
H Blade Width	3150 mm (124 in.) (10 ft. 4 in.)	3251 mm (128 in.) (10 ft. 8 in.)
I Blade Height	894 mm (35 in.)	955 mm (3 ft. 2 in.)
SAE Capacity	1.9 m³ (2.5 cu. yd.)	2.2 m³ (2.9 cu. yd.)
Weight	631 kg (1,391 lb.)	694 kg (1,530 lb.)
C-Frame Assembly Weigh	t (without blade) 399 kg (879 lb.)	399 kg (879 lb.)
J Blade Angle	22.2 deg.	22.2 deg.
K Overall Width with Blade Angled	Angled 2916 mm (9 ft. 7 in.)	3010 mm (9 ft. 11 in.)
L Blade Tilt (uses tilt jack)	429 mm (16.9 in.)	445 mm (17.5 in.)
M Cut Reach	340 mm (13.4 in.)	157 mm (6.2 in.)
N Width Over Track	2007 mm (6 ft. 7 in.)	2464 mm (8 ft. 1 in.)
O Cast Reach	569 mm (22.4 in.)	569 mm (22.4 in.)



Rear Ripper	650K XLT / 650K LGP	
Blade Type	PAT	
Multi-shank parallelogram ripper with 5 p	ockets and 3 shanks	
Weight	981 kg (2,163 lb.)	
P Maximum Penetration	508 mm (20 in.)	
Q Maximum Clearance Under Tip	508 mm (20 in.)	
R Overall Length, Lowered Position	1450 mm (57 in.) (4 ft. 9 in.)	
RI Overall Length, Raised Position	1015 mm (40 in.) (3 ft. 4 in.)	
S Overall Beam Width	1830 mm (6 ft. 0 in.)	
T Slope Angle (full raise)	40 deg.	
U Ripping Width	1670 mm (5 ft. 6 in.)	
V Distance Between Shanks	806 mm (32 in.)	





Additional equipment

Key: ● Standard ▲ Optional or special

*See your John Deere dealer for further information.

XLT LGP 650K Shoes

450K 550K 650K Engine Meets EPA Final Tier 4/EU Stage I emissions Electronic control with automatic engine protection Dual safety element dry-type air cleaner, evacuator valve Exhaust filter, under hood, with vertical stack Engine glow-plug starting system Programmable auto engine shutdo Automatic turbo cool-down timer Wet-sleeve cylinder liners Remote-mounted fuel filters with automatic electronic priming Engine coolant heater, 110 volts Engine coolant heater, fuel fired Chrome exhaust Rotary ejector engine air pre-clea Rotary ejector engine air pre-clea Rotary ejector engine air pre-clea Pluid-sample valves Quick-service ports Severe-duty 400-mL (13.5 oz.) fur filter and water separator with he ing element Cooling Blower-type, direct-drive cooling Variable-speed suction fan with optional reversing feature Automatic, programmable reversifan-drive fan	V
emissions Electronic control with automatic engine protection Dual safety element dry-type air cleaner, evacuator valve Exhaust filter, under hood, with vertical stack Engine glow-plug starting system Programmable auto engine shutdo Automatic turbo cool-down times Wet-sleeve cylinder liners Remote-mounted fuel filters with automatic electronic priming Engine coolant heater, 110 volts Engine coolant heater, fuel fired Chrome exhaust Rotary ejector engine air pre-clean Rotary ejector engine air pre-clean Pluid-sample valves Quick-service ports Severe-duty 400-mL (13.5 oz.) fur filter and water separator with he ing element Cooling Blower-type, direct-drive cooling Variable-speed suction fan with optional reversing feature Automatic, programmable reversi	v
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■ Exhaust filter, under hood, with vertical stack ■ Engine glow-plug starting system ■ Programmable auto engine shutde ■ Automatic turbo cool-down times ■ Wet-sleeve cylinder liners ■ Remote-mounted fuel filters with automatic electronic priming ■ Engine coolant heater, 110 volts ■ Engine coolant heater, fuel fired ■ Chrome exhaust ■ Rotary ejector engine air pre-clea ■ Fluid-sample valves ■ Quick-service ports ■ Severe-duty 400-mL (13.5 oz.) fur filter and water separator with he ing element Cooling ■ Blower-type, direct-drive cooling ■ Variable-speed suction fan with optional reversing feature ■ Automatic, programmable reversi	
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	ng-
 Enclosed safety fan guard (conforto SAE J1308 and ISO3457) 	ms
● ▲ Perforated engine side shields	
Heavy-duty perforated grille	
 Heavy-duty, trash-resistant radial and high-ambient cooling package 	
▲ ▲ Extreme-duty perforated grille wi	
Powertrain	
Remote diagnostic test ports	
 Automatic cold-weather transmiss warmup system 	ion
Automatic transmission derating exceeded system temperatures	for
▲ • Environmental service drains	
 2,000-hour vertical spin-on transmission filter 	nis-
Hydraulic System	
3-function hydraulics	
2,000-hour vertical spin-on hydra filter	ulic

450K	550K	650K	Hydraulic System (continued)
A	A	A	4-function hydraulics with rear plumbing
A	•	A	Drive-through hydraulic pump for use with winch
A	A	A	Grade-control-ready electro- hydraulics (EH)
		A	Integrated Grade Control (IGC)
A	•	A	Topcon IGC
			Mainframe, Access Panels
•	•	•	Front tow loop, bolt-on
•	•	•	Reinforced engine and mid-frame bottom guards
		•	Integral transmission guard
•	•	•	Vandal protection: Engine access door / Side tank access doors / Fuel tank / Instrument panel / Transmis- sion reservoir / Hydraulic reservoir
			Attachments
A	A	A	Counterweight, front, 109 kg (240 lb.)
A	•	A	Counterweight, rear, 150 kg (330 lb.)
A	A	A	Retrieval hitch with pin
A	•	A	Extended rigid drawbar with pin for pull-type implements
A	•	A	Drawbar, extended for winch (with or without fairlead)
A	•	A	Ripper, parallelogram with 5 shank pockets and 3 teeth
•	•	A	Winch, John Deere, power in/free spool out OR power out
		A	4-roller fairlead for winch
A	_	A	Root-rake blade attachment
		A	Rear-mounted toolbox
A	_	A	Trimble-ready interface package
A	A	A	Topcon-ready interface package
A	A	A	Leica-ready interface package
			Undercarriage
•	•	•	Full-length, smooth-surface track frame covers
•	•	•	Chain guides, front and rear
•	•	•	Maximum Life Undercarriage System
A	A	A	Extended life undercarriage (SC-2™ bushings)
A	•	A	Heavy-duty sealed and lubricated undercarriage
A	A	A	Full-length rock guards
STD I		50K Sho	
•			(18 in.) moderate service
			(24 in.) moderate service
		50K Sho	
•	A 4	15/-mm	(18 in.) moderate service

610-mm (24 in.) moderate service

XLI	LGP	
•	A	457-mm (18 in.) moderate service
•	A	510-mm (20 in.) moderate service with clipped corners
		610-mm (24 in.) moderate service
	•	710-mm (28 in.) moderate service with clipped corners
Can	ору	Cab Operator's Station / Electrical
•		 Retractable seat belts, 76 mm (3 in.) (conform to SAE J386)
		 Accessories: Convex wide-angle interior rearview mirror / Thigh cushions (2) / Cup holders (2)
•		 Power port (cab includes two power ports)
		 Lockable dash-mounted storage com- partment
		 Air conditioner, 24,000 Btu
		 Tinted glass
		 Dome light
		Heater (roof mount)
		 Wipers (intermittent plus 2 speeds) and washers – front window, left and right doors
		▲ Rear wiper and washer
•		Air-ride vinyl seat
		Air-ride fabric seat
		Deluxe heated and leather-bolstered air- ride seat
	_	 Under-seat heater
		 AM/FM, weather-band radio, clock, and MP3 player front plug-in
		 Radio-area storage slot
•		 Sealed alternator, 100 amps
•		 Lockable master electrical disconnect switch
		 Multifunction/multi-language LCD monitor: Analog display (fuel level, coolant temperature, and engine oil pressure) / Digital display (engine rpm, charge pressure, hours, DPF soot level, and transmission direction/speed range)
		 Built-in diagnostics: Diagnostic-code details / Sensor values / Calibrations / Individual circuit tester
		 Keyless start with multiple security modes
•		 Battery, dual, 24 volts
		Lights, grille mounted (2), rear mounted (2)Work lights, roof mounted (2)
		▲ External-mounted attachment mirror
•		 JDLink™ Ultimate wireless communication system (available in specific countries; see your dealer for details)
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